AMENDMENTS TO THE CLAIMS

Please cancel claims 5 and 11, amend claims 1-3, 6-10, and 12-14, and add claims 15-22 as follows:

1.   (Currently Amended) A method for quantifying asymmetry of body positions during a movement, comprising:

~~synchronizing one or more sets of data, wherein each set of data comprises two subsets of data, wherein one subset of data comprises body position representations on a left side of a body and one subset of data comprises body position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and calculating a value based on the one or more synchronized sets of data.~~

determining a first set of data that comprises positions of a first limb as the first limb performs the movement;

determining a second set of data that comprises positions of a second limb as the second limb performs a similar movement;

generating a shape based on the first set of data and the second set of data; and

determining a value of a characteristic of the generated shape.

2.   (Currently Amended) The method of claim 1 wherein ~~the body positions are angles of joints~~ a position of the first limb includes an angle of a joint of the first limb.

3.   (Currently Amended) The method of claim [[1]] 2 wherein ~~the body positions are angles of corresponding joints~~ a position of the second limb includes an angle of a corresponding joint of the second limb.

4.   (Original) The method of claim 1 wherein the movement comprises one or more cycles.

5.   (Cancelled)

6.   (Currently Amended) The method of claim [[5]] 1 wherein the ~~figure is a cyclogram~~ shape comprises an angle-angle diagram.

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7.   (Currently Amended) The method of claim 6 wherein ~~the calculated value is an area of the cyclogram~~ the characteristic of the generated shape comprises an area of the generated shape.

8.   (Currently Amended) The method of claim 6 wherein ~~the calculated value is an orientation of the cyclogram~~ the characteristic of the generated shape comprises an orientation of the generated shape.

9.   (Currently Amended) The method of claim 6 wherein ~~the calculated value is a minimum moment magnitude of the cyclogram~~ the characteristic of the generated shape comprises a minimum moment magnitude of the generated shape.

10.   (Currently Amended) The method of claim 1 further comprising ~~comparing the calculated value to a corresponding calculated value of a perfectly symmetrical movement or a baseline movement~~ comparing the determined value to a value of the characteristic of a shape representing a baseline movement.

11.   (Cancelled)

12.   (Currently Amended) A method for quantifying asymmetry of joint angles during a ~~cycle of~~ movement, comprising:

~~obtaining a set of data entries, wherein a data entry consists of one or more pairs of angle measurements, a pair comprising one angle measurement for a left joint and one angle measurement for a corresponding right joint at a same point in time, and wherein the set comprises data entries spanning the cycle of movement;~~

~~synchronizing the set of data entries;~~

determining a first set of data that comprises angles of a joint of a first limb as the first limb performs the movement;

determining a second set of data that comprises angles of a joint of a second limb as the second limb performs a similar movement;

generating a cyclogram based on the first set of data and the second set of data;

~~calculating~~ determining a value of a characteristic of the generated cyclogram; and

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~~comparing the characteristic to a corresponding characteristic of a cyclogram~~

~~representing a perfectly symmetrical gait.~~

comparing the determined value to a value of the characteristic of a cyclogram

representing a baseline movement.

13.   (Currently Amended) A system for quantifying asymmetry of body positions during a movement, comprising:

~~a synchronizing module that synchronizes one or more sets of data, wherein each set~~

~~of data comprises two subsets of data, wherein one subset of data comprises~~

~~body position representations on a left side of a body and one subset of data~~

~~comprises body position representations on a right side of the body, and~~

~~wherein each subset of data comprises body position representations spanning~~

~~the movement; and~~

~~a calculating module that calculates a value based on the one or more synchronized~~

~~sets of data.~~

a first determination module configured to determine a first set of data that comprises

positions of a first limb as the first limb performs the movement;

a second determination module configured to determine a second set of data that

comprises positions of a second limb as the second limb performs a similar

movement;

a generation module configured to generate a shape based on the first set of data and

the second set of data; and

a third determination module configured to determine a value of a characteristic of

the generated shape.

14.   (Currently Amended) A computer program product for quantifying asymmetry of body positions during a movement, including a computer readable medium, which comprises instructions to perform the following:

~~synchronizing one or more sets of data, wherein each set of data comprises two~~

~~subsets of data, wherein one subset of data comprises body position~~

~~representations on a left side of a body and one subset of data comprises body~~

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~~position representations on a right side of the body, and wherein each subset of data comprises body position representations spanning the movement; and calculating a value based on the one or more synchronized sets of data.~~

determining a first set of data that comprises positions of a first limb as the first limb performs the movement;

determining a second set of data that comprises positions of a second limb as the second limb performs a similar movement;

generating a shape based on the first set of data and the second set of data; and

determining a value of a characteristic of the generated shape.

15.   (New) The method of claim 1 wherein a position of the first limb includes a location of a portion of the first limb.

16.   (New) The method of claim 1 wherein a position of the first limb includes a location of a joint of the first limb.

17.   (New) The method of claim 1 wherein the first limb is part of one body and wherein the second limb is part of the same body.

18.   (New) The method of claim 1 wherein the first limb is part of one body and wherein the second limb is part of a different body.

19.   (New) The method of claim 1 wherein the first limb comprises a leg.

20.   (New) The method of claim 1 wherein the first limb comprises an arm.

21.   (New) The method of claim 10 wherein the baseline movement comprises a perfectly symmetrical movement.

22.   (New) The method of claim 12 wherein the movement comprises one or more cycles.

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